\$	777 777 777 777 777 777 777 777 777	**************************************	\$	
\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$ \$\$\$	YY		\$	
\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	YYY YYY YYY YYY		\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$	

Ps

YZ

ZS

ZS

ZS

ZS

ZS

ZS

ZS

ZS

ZS

25

28

28

RRRRRRRR RRRRRRRR RR RR	MM MM MM MMM MMMM MMMM MMMM MMMM	\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$ \$\$ \$\$ \$\$
RR RR RR RR RRRRRRRR RRRRRRRR RR RR RR RR	MM	\$\$\$\$\$\$ \$\$\$\$\$\$
RR RR RR RR RR RR RR RR	MM MM MM MM MM MM	\$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5
		\$
		\$\$\$\$\$\$ \$\$\$\$\$\$
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$

000000 00 RR 00 RR 00 RR 00 RR 00 RP 00 RV 00 P 00 00 00 00 RR RR RR 00 00 00 00 00 00 00 00 RR RR

....

SYSSRMS VECTOR Table of contents

- RMS SERVICE VECTOR DEFINITIONS B 16

16-SEP-1984 01:04:43 VAX/VMS Macro V04-00

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(1) 487 (1) 1734

Macros for Loadable Services REGION 2 OF SYS. SERV. VECTOR DEFINITIONS

00000001 RMSSWITCH=1 :GENERATE RMS SERVICE CASE BRANCH TABLE .NLIST .TITLE .IDENT SYS\$RMS VECTOR - RMS SERVICE VECTOR DEFINITIONS TRANSFERRED. 0000 0000 0000 CORPORATION. 38 39 0000 0000 0000 0000 0000 D. N. CUTLER 22-JUN-76 0000 0000 MODIFIED BY: 4455555555555566666666667777 0000 V03-041 LJK0287 0000 V03-040 LMP0239 V03-039 MMD0250 V03-038 DAS0001 V03-037 SSA0004 Stan Amway

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LJK0287 Lawrence J. Kenah 2. -Jun-19
Add R5 to entry mask for \$CANEXH system service. 4. -Jun-1984

LMP0239 L. Mark Pilant, 23-Apr-1984 9:21 Change \$CHKPRO from an exec mode service to a kernel mode service. This was made necessary by the \$CHKPRO (internal entry point) interface change.

MMD0250 Meg Dumont, 27-Feb-1984 17:49
Add support for \$MTACCESS installation specific accessibility routine

DASO001 David Solomon 20-Feb-1984
Implement new design for RMS scho SYS\$INPUT to SYS\$OUTPUT
(vs V03-019). Echo is now performed by a caller's mode AST
routine declared in RMS\RM\$EXRMS. Change INCB/DECB of FAB/RAB busy bit to BISB/BICB, now that we have room.

28-Dec-1983 for \$SETPFM, changed number of parameters from 1 to 4 and changed entry mask to save R2-R11.

V03-036 TMK0002 TMK0002 Todd M. Katz 19-Nov-1983
The entry point for \$ASCTOID can no longer be reached as a

			7-367-1704 03.40.31 E313.3AC.	CHOUSSUSF. HAR, I
0000 0000 0000 0000 0000 0000 0000 0000	73 : 74 : 75 : 76 :		branch destination from the executive model A temporary entry point (EXE\$ASCTOID) has this module, and a JMP is made from it is service entry point (EXE\$\$ASCTOID).	ode dispatcher. as been placed within to the real system
0000	78 79		Also, change the entry mask for SYS\$TRNU	.OG, so that R8 is
0000 0000 0000	73 74 75 77 77 78 81 81 81 81 81 81 81 81 81 81 81 81 81	v03-035	TMK0001 Todd M. Katz The entry points for \$FINISH_RDB and \$III longer be reached as branch destinations mode dispatcher. Temporary entry points EXE\$IDTOASC) have been placed within the each a JMP is made to the real system se (EXE\$\$FINISH_RDB and EXE\$\$IDTOASC).	22-Oct-1983 TOASC can no from the executive (EXE\$FINISH_RDB and is module, and from ervice entry points
0000 0000 0000	89 90 91	v03-034	PRB0254 Paul Beck 15-Sep-1 (1) Correct the way synchronous CJF service) Define loadable RUF services.	1983 14:49 vices are defined.
0000 0000 0000 0000	93 : 94 : 95	v03-033	WMC0029 Wayne Cardoza Loadable services should not be uncondit Add an alternate CHMx argument to LDBSR	31-Aug-1983 tionally inhibited.
0000 0000 0000	97 98	v03-032	DWT0125 David W. Thiel Remove CHECKARGLIST and calls to same.	22-Aug-1983
0000	100	v03-031	MKL0167 Mary Kay Lyons Generate loadable service vector for CJI	19-Aug-1983 SGETCJI.
0000 0000 0000	103	v03-030	KBT0578 Keith B. Thompson Add parameter to \$FILESCAN	8-Aug-1983
0000 0000 0000 0000	101 102 103 104 105 106 107 108 109	v03-029	RAS0178 Ron Schaefer Add code to detect the AST/non-AST RMS for condition where an RMS operation is init the user FAB/RAB is still waiting for coprevious operation.	AB/RAB race
0000	112	v03-028	WMC0028 Wayne Cardoza Add CJF services.	29-Jun-1983
0000 0000 0000	114 115 116 117	v03-027	WMC0027 Wayne Cardoza Make old logical name services "all mode Changes to image activator vectors.	23-Jun-1983
0000 0000 0000	118 119 120 121	v03-026	JWH0222 Jeffrey W. Horn Add LDBSRV macro for vector definitions services.	2-May-1983 of loadable
0000	123	v03-025	DMW4035 DMWalp Intergate new logical name structures.	26-May-1983
0000 0000 0000 0000 0000 0000 0000	120 121 122 123 124 125 126 127 128	v03-024	LMP0109 L. Mark Pilant, Make \$CHKPRO an EXEC mode system service of various system data structures.	28-Apr-1983 15:53 to allow examination
0000	167			

D 16

			5-SEP-1984 03:40:37 [SYS.SRC]	CMODSSDSP.MAR; 1 (1)
0000	130 :	v03-024	RAS0147 Ron Schaefer Add SFILESCAN. Add R8 and R9 to \$SETPRN	28-APR-1983 register mask.
0000 0000 0000 0000 0000 0000 0000	130 131 132 133 135 135 137 138 139	v03-023	JLV0244 Jake VanNoy Add \$BRKTHRUW. Change \$BRDCST to all mod \$BRDCST now uses \$BRKTHRU to do real wor	27-APR-1983 le service.
0000	137 138	v03-022	LMP0099 L. Mark Pilant, Add the \$CHKPRO system service.	13-Apr-1983 19:15
0000 0000 0000	141 :	v03-021	ACG0319 Andrew C. Goldstein, Add \$GRANTID and \$REVOKID services	21-Mar-1983 13:51
0000	142 143 144	v03-020	JLV0234 Jake VanNoy Add \$BRKTHRU service.	1-MAR-1983
0000 0000 0000 0000 0000 0000 0000	148 149 150 151 152	v03-019	RAS0120 Ron Schaefer Add support to echo SYS\$INPUT to SYS\$OUT This involves examining the return code if the special status RMS\$ ECHO (not ret is found, then create a RAB on the calle execute a \$PUT operation to echo the lin A certain amount of RMS synchronization shuffled around in order to make room fo	from RMS for \$GET; curned to users) er's stack and ne. code was
0000 0000 0000	154 155 156 157	v03-018	ACG0317 Andrew C. Goldstein, Fix off-by-one in kernel arg vector	22-Feb-1983 15:16
0000 0000 0000 0000	158 :	v03-017	RSH0004 R. Scott Hanna Added \$ASCTOID, \$FINISH_RDB, and \$IDTOAS	10-Feb-1983 C to system service list
0000 0000 0000	160 161 162 163	v03-016	RNG0016 Rod N. Gamache Added \$GETLKI to system service list	1-Feb-1983
0000 0000 0000	164 :	v03-015	WMC0015 Wayne Cardoza Put back accidentally deleted space hold	12-Jan-1983 ler for RMS synchronization.
0000	166 : 167 : 168 :	v03-014	DMW4023 DMWalp Added \$CRELNT, \$CRELNM, \$DELLNM and \$TRN	7-Jan-1983 ILNM
0000 0000 0000 0000	169 170 171 172 173	v03-013	KDM0033 Kathleen D. Morse Correct usage of an interlocked instruct the hardware cache queue.	13-Dec-1982 ion to flush
0000 0000 0000 0000 0000 0000 0000 0000 0000	174 175 176 177 178 179 180 181 182 183 184 185		ROW0146 Ralph O. Weber Insert routine header comments for INHEX and EXE\$CMODKRNLX (MPS\$CMODKRNLX). Move that EXE\$CMODKRNL (MPS\$CMODKRNL) header EXE\$CMODRKNL (MPS\$CMODKRNL) and ASTEXIT ASTEXIT. Make basic kernal-mode .PSECT or MP\$CMOD1 immediately after executive code can be inserted in a way that prese conditional assembly, and .PSECT definit and in its place, correct conditional as after ACCVID RET so that it is assembled so that it is located before ACCVID RET. lookup at KERDSP in MPCMOD to use CTL\$GL	CP, CHECKARGLIST, things around so comments are near comments are near definition for Y\$CMODK mode code so that new rves routine headers, ions. Backout ROW145, sembly of BGEQU 10\$ only for MPCMOD and Change PCB address

```
187
188
189
190
191
192
193
                                     19456789901230006789901123145
```

V03-011 ROW0145 Ralph O. Weber 29-NOV-1982
Move EXESEXCPTN (and MPSSEXCPTN) to before ASTEXIT (or MPSSASTEXIT) in an attempt to make branch destinations in EXESCMODKRNL reach.

correctly regardless of which processor executes it.

V03-010 KDM0030 Kathleen D. Morse 18-Nov-1982 Add logic to MPCMOD that allows the primary to execute secondary-specific code, without turning into a secondary.

V03-009 MLJ0099 Martin L. Jack, 20-Oct-1982 19:42 Complete V03-002 by correcting mode and argument count of \$SNDJBC and removing temporary stubs.

V03-008 RIH0001 Richard I. Hustvedt 1-Jun-1982
Correct handling of AST queue by secondary processor to avoid losing some AST notifications by incorrectly computing PHD\$B_ASTLVL.

V03-007 KDM0018 Kathleen D. Morse 30-Sep-1982
Add MPSWITCH logic to create a kernel system service dispatcher for the secondary processor of an 11/782.

V03-006 STJ3028 Steven T. Jeffreys 26-Sep-1982 Added \$ERAPAT system service vector.

V03-005 DWT0058 David Thiel 11-Aug-1982 Eliminate use of R2 while waiting for service completion.

V03-004 JWH0001 Jeffrey W. Horn 26-Jul-1982 Add new RMS service, RMSRUHNDLR, an un-documented service which acts as the Recovery Unit handler for RMS.

V03-003 PHL0102 Peter H. Lipman 16-Jul-1982
Fix new SYNCH logic to always return SS\$_NORMAL,
not access IOSB if error from service, and return
error status from \$SETEF if event flag cluster went away

V03-002 PHL0101 Peter H. Lipman 17-Jun-1982
Add \$SYNCH system service and fix \$QIOW and \$ENQW to use the new code for waiting for the combination of EFN and IOSB

Improve readability of conditionals.

Add \$GETDVIW, \$GETJPIW, \$GETSYIW, \$SNDJBC, \$SNDJBCW, and \$UPDSECW. All the waiting versions use common code.

CHANGE MODE SYSTEM SERVICE DISPATCHER
MACRO LIBRARY CALLS

SACBDEF

DEFINE AST CONTROL BLOCK OFFSETS

```
G 16
SYS$RMS_VECTOR
                                                              - RMS SERVICE VECTOR DEFINITIONS
                                                                                                                                              16-SEP-1984 01:04:43 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1
                                                                                                                                                                                                                                                          (1)
                                                                                                                                                                         DEFINE CONDITION HANDLING OFFSETS
DEFINE ENG SYSTEM SERVICE ARGS
DEFINE GETDVI SYSTEM SERVICE ARGS
DEFINE GETJPI SYSTEM SERVICE ARGS
DEFINE GETLKI SYSTEM SERVICE ARGS
DEFINE GETSYI SYSTEM SERVICE ARGS
DEFINE INTERRUPT PRIORITY LEVELS
DEFINE PCB OFFSETS
DEFINE PCB OFFSETS
DEFINE PROCESSOR REGISTERS
DEFINE PROCESSOR STATUS FIELDS
DEFINE RMS RAB FIELDS
DEFINE REBOOT PARAMETER BLOCK
DEFINE REBOOT PARAMETERS
DEFINE SYSGEN PARAMETERS
DEFINE SYSGEN PARAMETERS
DEFINE SYSGEN PARAMETERS
DEFINE SYSTEM SERVICE ARGS
DEFINE SYSTEM STATUS VALUES
DEFINE SYSTEM STATUS VALUES
                                                                                                             SCHFDEF
                                                                                     SENGDEF
                                                                                                             SGETDVIDEF
SGETJPIDEF
SGETLKIDEF
SGETSYIDEF
                                                                                                             SIPLDEF
                                                                                                             SPCBDEF
                                                                       SPHDDEF
                                                                                                             SPRDEF
                                                                                                             SPSLDEF
                                                                                                             SRABDEF
                                                                                                             SRPBDEF
                                                                                                             SQIODEF
                                                                                                             $SGNDEF
                                                                                                             $SNDJBCDEF
                                                                                                             $SSDEF
                                                                                                                                                                           DEFINE SYNCH SYSTEM SERVICE ARGS
                                                                                                             SSYNCHDEF
                                                                                                                                                                           : DEFINE UPDATE SECTION SYS SRV ARGS
                                                                                                             SUPDSECDEF
                                                                                                 LOCAL EQUATES
                                                    00000001
00000080
00000081
00000080
                                                                                                                                           100
107
                                                                                                             CATO =
                                                                                                             CAT7 =
                                                                                                             DEF_MASK =
EXC_MASK =
                                                                                                                                                                           ; INHIBIT FOR 'ALL' AND 'NOT EXIT'
                                                                                                                                            CATO! CAT7
                                                                                                                                                                           INHIBIT ONLY FOR 'ALL' CASE
                                                                                                LOCAL MACROS
                                                                                                             GSYSSRV - GENERATE SYSTEM SERVICE ENTRY VECTOR
                                                                                                             GSYSSRV SRVNAME, MODE, NARG, REGISTERS, MASK, NOSYNC
                                                                                                            WHERE:
                                                                                                                           SRVNAME - SERVICE NAME LESS ANY PREFIX (SYS$, EXE$, RMS$$)
MODE - MODE DESIGNATOR FOR SERVICE (K,E,ALL,R)
NARG - REQUIRED NUMBER OF ARGUMENTS
                                                                                                                            REGISTERS - REGISTER SAVE LIST
MASK - SERVICE INHIBIT MASK (BIT SET IN CAT INHIBITS)
                                                                                                                            NOSYNC - NON-ZERO IF RMS SYNCHRONIZATION CODE NOT TO BE INCLUDED
                                                                                                                           GSYSSRV, SRVNAME, MODE, NARG, REGS, MASK=DEF_MASK, NOSYNC NDF, RMSSWITCH DF, LIBSWITCH $$$0000, QUAD
                                                                                                             .MACRO
                                                                                                             . IF
                                                                                                             .PSECT
                                                                                                             . IFF
                                                                                                             .PSECT
                                                                                                                            $$$000,QUAD
                                                                                                             .ENDC
                                                                                                             ALIGN
                                                                                                                           LIBSWITCH
                                                                                             SYS$'SRVNAME::
                                                                                                             .IFF
                                                                                                                            NDF, MPSWITCH *M<REGS>
                                                                                                             . WORD
                                                                                                             SRVNAME' MASK = "M<REGS>
.IFTF ; MPSWITCH
```

```
H 16
SYSSRMS_VECTOR
                                                                                                16-SEP-1984 01:04:43 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1
                                          - RMS SERVICE VECTOR DEFINITIONS
                                                                                                                                                                          (1)
                                                                                                                                                                  Page
                                                                          SRY MODE
                                                                                    NOSYNC
                                                                                               SRVNAME, NARG, MASK
                                                                          SRV'MODE
                                                                                               SRVNAME, NARG, MASK, NOSYNC
                                                                          .ENDC
.ENDC
.IFT
                                                                                    ; MPSWITCH
                                                                                    2
                                                                          .BLKL
                                                                          .ENDC
                                                                          SRV'MODE
                                                                                               SRVNAME, NARG, MASK
                                                                          .ENDC
                                                                          . ENDM
                                                                                    GSYSSRV
                                                          318
319
                                                 0000
                                                 0000
                                                                          GCOMPSRVB - GENERATE COMPOSITE SYSTEM SERVICE ENTRY VECTOR BEGIN
                                                 0000
                                                 0000
                                                                          GCOMPSRVB SRVNAME, REGISTER_MASK[, PREFIX]
                                                 0000
                                                 0000
                                                                          WHERE:
                                                                                    SRVNAME - SERVICE NAME LESS ANY PREFIX (SYS$, EXE$)
REGISTER MASK - SYMBOLIC REGISTER MASK, E.G QIO MASK
PREFIX - IF SUPPLIED, THE PREFIX FOR THE SERVICE NAME.
IF OMITTED, "SYS$" IS ASSUMED.
                                                 0000
                                                 0000
                                                 0000
                                                 0000
                                                 0000
                                                 0000
                                                 0000
                                                                          .MACRO
                                                                                    GCOMPSRVB, SRVNAME, REGMSK, PREFIX=SYS$ NDF, MPSWITCH
                                                                                    NDF , RMSSWITCH
                                                                          .IF DF, LIBSWITCH .PSECT $$$0000, QUAD
                                                                          . IFF
                                                                          PSECT $$$000,QUAD
                                                                          .ENDC
                                                                          . ALIGN
                                                                                    QUAD
                                                                          . IF DF
                                                                                    LIBSWITCH
                                                          NOT_BLANK, <SRVNAME>,-
                                                                'PREFIX'SRVNAME::
                                                                          .IFF
.ENABL LSB
                                                               COMPSTRT=.
                                                                          .IIF
                                                                                    NOT_BLANK, <REGMSK>,-
                                                                          . WORD
                                                                                    <REGMSK>
                                                                          .ENDC
                                                                          .ENDC
                                                                          .ENDC
                                                                                     : MPSWITCH
                                                                                    GCOMPSRVB
                                                                          . ENDM
                                                                          GCOMPSRVE - GENERATE COMPOSITE SYSTEM SERVICE ENTRY VECTOR END
                                                                          GCOMPSRVE
                                                                                               QUADWORDS
                                                                          WHERE:
                                                                                    QUADWORDS - NUMBER OF QUADWORDS TO RESERVE FOR VECTOR
```

```
#SRVNAME
0000
0000
0000
0000
0000
0000
0000
                       RET
                       .PSECT
                                YSCMODEN, BYTE
                       .=ECASCTR
                       ASSUME NARG LE 127
                       .BYTE
.PSECT
                                NARG
                                YSCMODEX, BYTE
                       .=ECASCTR
                       .BYTE
.PSECT
                                YSCHODE, BYTE
                       .SIGNED_WORD
                                         EXES'SRVNAME-ECASE+2
             SRVNAME=ECASCTR
             ECASCTR=ECASCTR+1
                                MPSWITCH
SRVE
                       .ENDC
                       . ENDM
0000
                   MACROS FOR GENERATING RMS SYSTEM VECTORS
0000
0000
                       .MACRO RMSSRV
                                         SRVNAME NARG=1, REGS=<R2, R3, R4, R5, R6, R7, R8, R9, R10, R11>,-
0000
                                          MASK, NOSYNC=0
0000
                      GSYSSRV SRVNAME, R, NARG, < REGS > , MASK, NOSYNC
0000
                       .ENDM RMSSRV
0000
0000
                SRVR - GENERATE ENTRY FOR RMS SERVICE (EXEC MODE)
0000
                                SRVR SRVNAME, NARG, MASK, NOSYNC NDF, MPSWITCH
0000
                       .MACRO
0000
            CMESC_'SRVNAME=RCASCTR
0000
0000
                      CHME
                                #SRVNAME
                      . IF EQ NOSYNC
. IIF GT <.+2-RMSSYNC>-127,-
0000
             RMSSYNC=RMSWBR
                                                             :RESET BRANCH DESTINATION
             RMSWBR=.
                                RMSSYNC
                       IFF
                      RET
                       .ENDC
                       .PSECT YSCHODEN, BYTE
                       .=RCASCTR
                      ASSUME NARG LE 127
                      BYTE NARG
PSECT YSCHODEX, BYTE
                       .BYTE
                       .=RCASCTR
                       .BYTE MASK
       465
466
467
468
469
470
471
472
473
474
                       .PSECT $$$RMSVEC,BYTE,NOWRT
                       .SIGNED_WORD
                                          RMS$'SRVNAME-RCASE+2
0000
0000
0000
0000
0000
0000
                       . ENDC
             SRVNAME=RCASCTR
             RCASCTR=RCASCTR+1
                                MPSWITCO.
                      .ENDC
                       .ENDM
```

CMKSC_'SERVICE = ALT_CHMK

a#EXE\$LDB_SYNCH

ENDC

CHMK #SERVICE . IF NOT_BLANK EFN PUSAL PUSHL

JMP

```
. IFF
                  RET
                                .IF BLANK ALT_CHMK
SERVICE = PREFIX'KCASCTR
PREFIX'KCASCTR = PREFIX'KCASCTR + 1
                                SERVICE = ALT_CHMK
                                .ENDM LVEC_K
                                LVEC_E - Exec Mode Loadable System Service Vector
                                LVEC_E PREFIX, SERVICE, EFN, IOSB
                                .MACRO LVEC_E, PREFIX, SERVICE, EFN, 10SB, ALT_CHME
.IF BLANK ALT CHME
CMESC_'SERVICE = PREFIX'ECASCTR
           0000
           0000
           CMESC_'SERVICE = ALT_CHME
                                 ENDC
                                CHME
                                         #SERVICE
                                . IF NOT BLANK EFN
                                     PUSAL
                                                  #EFN
                                     PUSHL
                                                  #IOSB
                                     JMP
                                                  a#EXE$LDB_SYNCH
                                . IFF
                                     RET
                                 ENDC
                                RET
                                . IF BLANK ALT_CHME
                                     SERVICE = PREFIX'ECASCTR
                                     PREFIX'ECASCTR = PREFIX'ECASCTR + 1
                                     SERVICE = ALT_CHME
                                 .ENDC
                                . ENDM
                                        LVEC_E
           0000
                                LVEC_ALL - Mode of caller Loadable System Service Vector
           0000
           0000
0000
0000
0000
0000
0000
0000
0000
                                            PREFIX.SERVICE.EFN.10SB
                                LVEC_ALL
                                . IF NOT_BLANK EFN
                                     ERROR
                                                  : SYNCH NOT ALLOWED FOR ALL-MODE SERVICES
                                .ENDM
                                        LVEC_ALL
00000000
                       ECASCTR=0
```

SND SND SPA SSV

SYN

SYN TRU UPD UPD UPD UPD UPD UPD UPD

```
DEFINE REMAINING SERVICES
```

```
GSYSSRV DCLEXH, K, 1, -

(R2, R3, R4, R5)

GSYSSRV DELLOG, ALL, 3, -

(R2, R3, R4, R5, R6, R7, R8)

GSYSSRV DELMBX, K, 1, -

(R2, R3, R4, R5)

GSYSSRV DELPRC, K, 2, -

(R2, R3, R4, R5, R6, R7)

GSYSSRV DELTVA, K, 3, -

(R2, R3, R4, R5, R6, R7), -

EXC MASK
                                                                                                                               REGISTERS R2-R5
              0000
0000
0000
0000
0000
0000
                                                                                                                               REGISTERS R2-R4
                                                                                                                               DELETE LOGICAL NAME REGISTERS R2-R8
                                                                                                                               DELETE MAILBOX
REGISTERS R2-R5
                                                                                                                               DELETE PROCESS
REGISTERS R2-R5
0000
0000
                                                                                                                               DELETE VIRTUAL ADDRESS
REGISTERS R2-R7
0000
                                                                                                                               EXCEPTION MASK
DELETE GLOBAL SECTION
R10> : REGISTERS R2-R10
DEALLOCATE DIAGNOSTIC PAGE
                                                                   EXC_MASK
                                            GSYSSRV DGBESC.K.3.-

<R2.R3.R4.R5.R6.R7.R8.R9

GSYSSRV DLCDNP.K.2.-
ÖÖÖÖ
0000
0000
0000
                                                                   <R2, R3, R4, R5, R6, R7>
                                                                                                                                REGISTERS R2-R7
                                              GSYSSRV DLCÉFC, K, 1, -

<R2, R3, R4, R5, R6, R7, R8, R9

GSYSSRV UPDSEC, K, 8, -

<R2, R3, R4, R5, R6, R7, R8>

GSYSSRV SNDÉRR, K, 1, -

<R2, R3, R4, R5>

GSYSSRV EVITA
0000
                                                                                                                               DELETE COMMON EVENT CLUSTER
R10 R11> : REGISTERS R2-R11
:UPDATE SECTION FILE
0000
0000
0000
                                                                                                                                R2-R8
0000
                                                                                                                                SEND MSG TO ERROR LOGGER
0000
                                                                                                                               REGISTERS R2-R5
                                              GSYSSRV EXIT.K.1.-
0000
                                                                                                                                IMAGE EXIT
0000
                                                                                                                                REGISTER R4, ALWAYS ALLOWED!
                                               GSYSSRV EXPREG.K.4.
0000
                                                                                                                                EXPAND PROGRAM REGION
                                              GSYSSRV EXPREG, K, 4, -

<R2, R3, R4, R5, R6, R7, R8>

GSYSSRV FAO, ALL, 0, -

<R2, R3, R4, R5, R6, R7, R8, R9

GSYSSRV FAOL, ALL, 0, -

<R2, R3, R4, R5, R6, R7, R8, R9

GSYSSRV FORCEX, K, 3, -

<R2, R3, R4, R5>

GSYSSRV IMGSTA, ALL, 6
0000
                                                                                                                               REGISTERS R2-R8
                                                                                                                             FORMAT ASCII OUTPUT

P.R10,R11> : REGISTERS R2-R11

FORMAT ASCII OUTPUT WITH VALUE LIST

P.R10,R11> : REGISTERS R2-R11

FORCE EXIT
0000
0000
0000
0000
0000
                                                                                                                               REGISTERS R2-R5
              1301
0000
              1302
1303
0000
                                               GSYSSRV IMGSTA, ALL, 6,-
                                                                                                                               : IMAGE STARTUP
0000
                                                                                                                                REGISTERS NONE
                                              GSYSSRV SNDJBC, E, 7, - SEND TO JOB CONTROLLER (R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11 GSYSSRV GETTIM, E, 1, - GET TIME
               1304
0000
0000
              1305
              1306
0000
0000
               1307
                                                                                                                              NO REGISTERS : UPDATE SECTION AND WAIT
                                                                   <>
               1308
0000
                                               GCOMPSRVB UPDSECW .-
0000
               1309
                                                                  <UPDSEC_MASK ! GETJPI_SYNCH_MASK>
0000
                                            GCOMPSRVE
GSYSSRV HIBER, K, O, -

(R2, R3, R4, R5)

GSYSSRV IMGACT, E, 8, -

GSYSSRV LCKPAG, K, 3, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

LOCK PAGE IN MEMORY

(R2, R3, R4, R5, R6, R7, R8); REGISTERS R2-R8

LOCK PAGES IN WORKING SET

(R2, R3, R4, R5, R6, R7, R8); REGISTERS R2-R8

GSYSSRV MGBLSC, K, 7, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV PURGWS, K, 1, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV PURGWS, K, 1, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11
                                               GCOMPSRVE
0000
0000
0000
0000
0000
0000
0000
0000
0000
                                              GSYSSRV PURĠWS, K, 1 - PURĠE WOR

<R2, R3, R4, R5, R6, R7, R8> R2-R8

GSYSSRV NUMTIM, E, 2 - CONVERT 1

<R2, R3, R4, R5, R6, R7> REGISTERS

GSYSSRV SNDÓPR, E, 2 - SEND MSG

<R2, R3, R4, R5, R6, R7, R8, R9, R10, R11>
                                                                                                                                PURGE WORKING SET
0000
0000
                                                                                                                                CONVERT TIME TO NUMERIC REGISTERS R2-R7
                                                                                                                                 SEND MSG TO OPERATOR
                                                                                                                                                                      : REGISTERS R2-R11
```

PSE

SYS

Pse

ŠAE SSS

Pha Ini Com Pas Sym

Sym Pas Sym Pse Cro Ass

The 252 The 234

\$2 \$2 \$01

121 The

**5

GSYSSRV QIO, K. 12 - QUEUE I/O REQUEST (R2 R3 R4 R5, R6, R7, R8, R9 R10, R112) REGISTERS R2-R11 READ EVENT FLAG (R2 R3 R4 R5) REGISTERS R2-R5 REGISTERS R2-R5 RESUME, K. 2 - RESUME PROCESS (R2 R3 R4 R5) REGISTERS R2-R5 REGISTERS R2-R5 RESUME PROCESS (R2 R3 R4 R5) REGISTERS R2-R7 REGISTERS R2-R9 R10, R112 REGISTERS R2-R9 R5YSSRV SCHDWK, K. 4 - SCHEDULE WAKEUP (R2 R3 R4 R5) R6, R7, R8, R9 R10, R112 REGISTERS R2-R9 R5YSSRV SETAST, K. 1 - SET EVENT FLAG R6SYSSRV SETER, K. 1 - SET EVENT FLAG R6SYSSRV SETER, K. 1 - SET EVENT FLAG R6SYSSRV SETER, K. 1 - SET EVENT FLAG R6SYSSRV SETERN, K. 1 - SET EXCEPTION VECTOR (R2 R3 R4 R5) REGISTERS R2-R5 SEE WAITFR R6SYSSRV SETERN, K. 1 - REGISTERS R2-R9 REGISTERS R2-R9 R6SYSSRV SETPRA, K. 2 - REGISTERS R2-R9 R6SYSSRV SETPRA, K. 2 - REGISTERS R2-R9 R6SYSSRV SETPRA, K. 4 - REGISTERS R2-R5 R6SYSSRV SETPRA, K. 4 - REGISTERS R2-R5 R6SYSSRV SETPRA, K. 5 - REGISTER R4 R6SYSSRV SETSFM, K. 1 - REGISTER R4 R6SYS 0000 0000 0000 0000 0000 0000 0000 SEND MSG TO SYMBIONT MANAGER SCHEDULE WAKEUP 0000 0000 0000 0000 0000 REGISTERS R2-R5 SET EVENT FLAG REGISTERS R2-R5. SEE WAITFR COMMENTS. 0000 0000 0000 0000 0000 0000 0000 0000 0000 GSYSSRV SETSFM.K.1.-<R4>.EXC_MASK GSYSSRV SETSWM,K.1.-0000 SET SYSTEM SERVICE FAILURE MODE 0000 REGISTER R4. AND EXECPTION MASK SET PROCESS SWAP MODE 0000 0000 0000 REGISTER R4 <R4> GSYSSRV SUSPND, K, 2, -<R2, R3, R4, R5> SUSPEND PROCESS REGISTERS R2-R5 0000 TRANSLATE LOGICAL NAME REGISTERS R2-R8 GSYSSRV TRNLOG, ALL, 6 .-GSYSSRV TRNLOG, ALL, 6,
<R2, R3, R4, R5, R6, R7, R8>

GSYSSRV ULWSET, K, 3,
GSYSSRV ULWSET, K, 3,
<R2, R3, R4, R5, R6, R7, R8>

GSYSSRV UNWIND, ALL, 2,
<R2, R3, R4, R5>

GSYSSRV WAITER, K, 1,
<R2, R3, R4, R5, R6> 0000 0000 0000 0000 UNLOCK PAGE FROM MEMORY REGISTERS R2-R8 UNLOCK PAGES FROM WORKING SET REGISTERS R2-R8 0000 UNWIND PROCEDURE CALL STACK 0000 REGISTERS R2-R5
WAIT FOR EVENT FLAG
REGISTERS R2-R6. IF R8 IS EVER USED
THE RMS SYCHRONIZATION CODE MUST BE
MODIFIED TO SAVE IT ALSO. 0000 IF R8 IS EVER USED 0000 1380 1381 1382 1383 1384 1386 1387 1388 1389 0000 WAKE PROCESS
REGISTERS R2-R5
WAIT FOR LOGICAL AND OF EVENT FLAGS 0000 0000 0000 0000 REGISTERS R2-R6 WAIT FOR LOGICAL OR OF EVENT FLAGS REGISTERS R2-R5 BROADCAST TO TERMINALS 0000 0000 0000 REGISTERS R2-R6 DECLARE CHANGE MODE HANDLER

RSE

Tab

GSYSSRV SETPFM.K.4.
GSYSSRV SETPFM.K.4.
GSYSSRV GETMSG.ALL.5.
GSYSSRV GETMSG.ALL.5.
GSYSSRV DERLMB.K.1.
GSYSSRV CANEXH.K.1.
GSYSSRV CANEXH.K.1.
GSYSSRV GETCHN.K.5.
GSYSSRV GETCHN.K.5.
GSYSSRV GETCHN.K.5.
GSYSSRV GETCHN.K.5.
GSYSSRV GETCHN.K.5.
GSYSSRV GETDEV.K.5.
GET DOB PROCESS INFORMATION

(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; REGISTERS R2-R11

GSYSSRV GETJPI.K.7.
GSYSSRV GETJPI.K.7.
GSYSSRV PUTMSG.ALL.3.
(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; REGISTERS R2-R11

GSYSSRV EXCMSG.ALL.3.
(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; REGISTERS R2-R11

GSYSSRV EXCMSG.ALL.2.
GSYSSRV EXCMSG.ALL.2.
(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; REGISTERS R2-R11

GSYSSRV EXCMSG.ALL.2.
(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; REGISTERS R2-R11

GSYSSRV EXCMSG.ALL.2.
(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; REGISTERS R2-R11 0000 0000 : SAVE R4 1393 1397 1399 0000 0000 0000 GSYSSRV EXCMSG, ALL.2.— ;OUTPUT EXCEPTION SUMMARY MESS/ <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ;REGISTERS R2-R11 GSYSSRV SNDACC,E.2.— ;SEND MSG TO ACOUNTING MANAGER <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ;REGISTERS R2-R11 GSYSSRV SETIME,K,1— ;SET SYSTEM TIME GSYSSRV SETPRV.K.4.- SET PRIVILEGES <R2,R3,R4,R5,R6,R7,R8> REGISTERS R2-R8

RMSSRV

RMSSRV RMSSRV

RMSSRV

RMSSRV

RMSSRV

RMSSRV

RMSSRV

REWIND

TRUNCATE

SPACE

ENTER

PARSE

REMOVE

SEARCH

RENAME, NARG=4

REWIND FILE

POSITION FOR TRANSFER TRUNCATE FILE ENTER FILENAME INTO DIRECTORY PARSE FILENAME SPECIFICATION

REMOVE FILENAME FROM DIRECTORY RENAME A FILE SEARCH A FILE DIRECTORY

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Page 19 (1)
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```
.SBTTL REGION 2 OF SYS. SERV. VECTOR DEFINITIONS
           1734
1735
1736
1737
1738
1739
1740
1741
1742
1743
004A
004A
004A
                         Note: Service codes for exec mode services in this region are reserved by the offset defined above between RCASCTR and ECASCTR.
                          If the ASSUME at the end of this section breaks, the offset must
                         be increased.
                                     1746
                                                                                                        ENQUEUE AND WAIT
CLREF MASK ! SETEF MASK>
RESERVE 3 QUADWORDS FOR VECTOR
SET SYSTEM SERVICE FILTER MASK
004A
                                     GCOMPSRVB ENQU. - 

<ENQ_MASK ! WAITFR_MASK !
004A
            1748
           1762
1763
004A
                                     GCOMPSRVE 3
GSYSSRV SETSSF,K,1,-
                                     GCOMPSRVE
004A
004A
            1764
                                                      <R4>
                                                                                                         REGISTER R4
                                    GSYSSRV SETSTK.K.3.-

SET STACK LIMITS

REGISTERS R2.R3.R4

GSYSSRV GETSYI.K.7.-

GET SYSTEM INFORMATION

REGISTERS R2-R11

GSYSSRV IMGFIX.ALL.0.-

REGISTERS R2-R11

IMAGE ADDRESS RELOCATION FIXUP

REGISTERS R2-R5

REGISTERS R2-R5

REGISTERS R2-R5

REGISTERS R2-R5

REGISTERS R2-R5

REGISTERS R2-R5
            1765
004A
004A
            1766
004A
            1767
004A
            1768
           1769
1770
004A
004A
            1771
004A
004A
                                                     <0>
                                     GCOMPSRVE 1 GSYSSRV GETDVI, K, 8, - GET DEVICE AND VOLUME INFORMATION <R2, R3, R4, R5, R6, R7, R8, R9, R10, R11> : REGISTERS R2-R11 GCOMPSRVB GETDVIW. - GET DEVICE INFORMATION AND WAIT 
            1773
004A
           1774
004A
004A
004A
004A
                                     GCOMPSRVE
004A
                                     GCOMPSRVB GETJPIW,-
004A
                                                                                                     ; GET JOB/PROCESS INFORMATION AND WAIT
                                    GCOMPSRVE GETSYIN, - GET SYST
            1788
004A
004A
            1798
004A
            1799
                                                                                                     ; GET SYSTEM INFORMATION AND WAIT
                                                     <GETSYI_MASK ! GETJPI_SYNCH_MASK>
004A
            1800
004A
            1809
                                     GCOMPSRVE
004A
                                     GCOMPSRVB SNDJBCW. -
                                                                                                     ; SEND TO JOB CONTROLLER AND WAIT
                                                     SNDJBC_MASK ! GETJPI_SYNCH_MASK>
004A
                                     GCOMPSRVE TO THE STANCH, -
004A
                                     GCOMPSRVB SYNCH, -

SYNCHRONIZE EFN AND 10SB

SWAITFR MASK ! CLREF MASK ! SETEF MASK >

GCOMPSRVE 6 QUADWORDS FOR VECTOR
GSYSSRV ERAPAT, K, 3, -

GENERATE A SECURITY ERASE PATTERN
004A
004A
004A
004A
004A
             861
862
863
                                    GSYSSRV CRELNT, K, 8, -

(REATE LOGICAL NAME TABLE

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV CRELNM, K, 5, -

(REATE LOGICAL NAME

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV DELLNM, K, 3, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV TRNLNM, K, 5, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV GETLKI, K, 7, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GCOMPSRVB GETLKIW, -

GET LOCK INFORMATION AND WAIT
                                                      <R4>
                                                                                                         SAVE R4
             864
             865
            1866
1867
1868
1869
1870
1871
1872
```

20 (1)

Page

```
1875
1888
1889
1889
1899
1895
1896
1896
1896
1896
1901
1903
1904
                                     004A
             004A
             004A
             004A
             004A
                                      GCOMPSRVE
             004A
             004A
00004028
             004A
                                      CJFSKCASCTR = 16424
             004A
             004A
                                                 CJFS, ALLJDR, CJFS, ASSJNL,
                                       LDBSRV
                                                                                  <R4>
                                       LDBSRV
                                                                                  <R4>
                                                 CJFS.
CJFS.
             004A
                                                         CONUIC.
                                       LDBSRV
                                                                                  <R4>
             004A
                                       LDBSRV
                                                         CREJNL,
                                                                                  <R4>
             004A
                                       LDBSRV
                                                         DEALJOR,
                                                                                  <R4>
             004A
004A
004A
                                                         DEASJNL,
                                                                           ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                       LDBSRV
                                                 CJFS,
                                                         DEASJNL_INT.
                                                 CJFS,
                                       LDBSRV
                                                                                 <R4>
                                       LDBSRV
                                                         DELJNL,
                                                                                  <R4>
                                                 CJFS,
                                                         DMTJMD,
                                       LDBSRV
                                                                                  <R4>
             004A
004A
004A
                     1940
1941
1942
1943
                                                         DSPJNL,
GETJNL,
GETRUI,
                                                 CJFS,
                                       LDBSRV
                                                                                  <R4>
                                                 CJFS,
                                       LDBSRV
                                                                                  <R4>
                                                 CJFS.
                                       LDBSRV
                                                                                  <R4>
                                                         MODFLT,
POSJNL,
READJNL,
RECOVER,
MNTJMD,
                                                 CJFS.
                                       LDBSRV
                                                                                  <R4>
             004A
                                       LDBSRV
                                                 CJFS.
                                                                                  <R4>
                                                 CJFS.
                                       LDBSRV
                                                                                  <R4>
                                       LDBSRV
                                                                                  <R4>
                                       LDBSRV
                                                 CJFS.
                                                                                  <R4>
                                                         CRENWY,
CONJNLF,
              004A
                                       LDBSRV
                                                  CJFS
                                                                                  <R4>
                                       LDBSRV
                                                 CJFS.
                                                                                  <R4>
                                                         DCNJNLF.
FORCEJNL
                                       LDBSRV
                                                 CJFS.
                                                                                  <R4>
                                                                          ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                       LDBSRV
                                                         FORCEJNLÚ,
WRITEJNL
WRITEJNLÚ,
GETCJI,
                                       LDBSRV
                                                 CJFS,
              004A
                                       LDBSRV
                                                 CJFS
             004A
004A
004A
                                       LDBSRV
                                                  CJF$
                                       LDBSRV
                                                                                  <R4>
                                                  CJFS.
                                                                                 <R4>, 4, 5, DMTJMD

<R4>, 4, 5, MODFLT

<R4>, 4, 5, POSJNL
                                                 CJFS.
                                                         DMTJMDW.
                                       LDBSRV
                                                 CJF $
                                       LDBSRV
                                                          MODFLTW.
                                                         POSJNLW.
                                       LDBSRV
```

```
- RMS SERVICE VECTOR DEFINITIONS 16-SEP-1984 01:04:43 REGION 2 OF SYS. SERV. VECTOR DEFINITION 5-SEP-1984 03:40:37
                                                                                                       VAX/VMS Macro V04-00
[SYS.SRC]CMODSSDSP.MAR:1
                                                                                                                                                   Page 21 (1)
                       1959
1960
1961
1962
1963
1965
1965
1966
1967
1968
1969
1970
               004A
004A
004A
                                                       CJFS, READJNLW,
CJFS, RECOVERW,
                                            LDBSRV
                                                                                             <R4>, 4, 5, READJNL
<R4>, 5, 6, RECOVER
               004A
00004010
                                            RUF$KCASCTR = 16400
                                                                                              <R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6><R2.R3.R4.R5.R6>
               LDBSRV
LDBSRV
                                                                   REENTERRU,
STARTRU,
                                                        RUFS,
                                                        RUFS,
                                                                   PHASE1.
                                                        RUFS,
                                            LDBSRV
                                                        RUFS,
                                            LDBSRV
                                                                   PHASE2
                                                        RUFS,
                                                                   CANCELRU
                                            LDBSRV
                                                                   MARKPOINTRU,
                                            LDBSRV
                                                        RUFS,
                                                        RUFS,
                                                                   RESETRU,
                                            LDBSRV
                        1972
1973
1974
1975
1976
1977
                                                        RUFS,
                                                                   DCLRUH,
                                            LDBSRV
                                                       RUFS,
                                            LDBSRV
                                                                   CANRUH.
                                                                                                        ,R4,R5,R6>
                                            LDBSRV
                                                                   RUSTATUS.
                                   End Recovery Unit consists of a two-phase commit, so we call each
                                   phase separately.
                        1978
                        1979
                                            GCOMPSRVB ENDRU, <PHASE1_MASK ! PHASE2_MASK>, RUF$; End Recovery Unit GCOMPSRVE 2
                                            GSYSSRV MTACCESS, K, 6, - ; Mag tape installation specific access routi <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11
                                   End of system service vector definitions. New system services are
                                   to be added at this point.
                        1997
2000
2003
               004A
                                            ASSUME RCASMIN GE ECASCTR
                                                                                             :Exec service codes must not collide with RM
```

SYSSRMS_VECTOR

- RMS SERVICE VECTOR DEFINITIONS 16-SEP-1984 01:04:43 VAX/VMS Macro V04-00 REGION 2 OF SYS. SERV. VECTOR DEFINITION 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1

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RSE VO4

004F 2345

.END

- RMS SERVICE VEC	5-SEP-1	984 01:04:43 VAX/VMS Macro V04-00 984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1	Page 2
= 00000008 = 00000024 = 00000008	GETLKIS 105B GETLKIS ITMLST GETLKIS LKIDADR	= 00000010 = 00000000 = 00000008	
= 00000001 = 0000080 = 00004028	GETLKIS NARGS GETLKIS RESERVED	= 00000007 = 0000001C	
= 0000001C = 00000000	GETSYIS ASTADR GETSYIS ASTPRM	= 00000018 = 0000001C	
= 0000001F	GETSYIS_CSIDADR GETSYIS_EFN GETSYIS_IOSB	= 00000008 = 0000004 = 0000014	
= 00000020	GETSYIS TIMEST GETSYIS NARGS	= 00000010 = 00000007	
= 0000000C = 00000028	GETTIM IDTOASC	= 00000000 = 0000000A	
= 0000001C = 00000020 = 0000024	IMGACT MODIFY NUMTIM	= 00000003 = 00000024 = 00000004	
= 00000004 = 00000010	OPEN	= 00000025 = 00000026	
= 0000000C = 0000000B	PUT	= 00000028 = 00000016 = 00000014	
= 00000018 = 0000002C = 00000014	QIOS ASTPRM QIOS CHAN QIOS EFN	= 00000018 = 00000008 = 00000004	
= 0000002A = 00000021	QIOS FUNC QIOS IOSB	= 0000000c = 00000010	
= 00000034	Q108_P1 Q108_P2	= 0000001c = 00000020	
= 00000009	Q108_P3 Q108_P4 Q108_P5	= 00000024 = 00000028 = 00000020	
= 00000015	RCASCTR	= 00000030 = 00000035	
= 00000010	RCASMIN	= 00000022 = 00000012	
= 0000000C = 00000004 = 00000014	RELEASE	= 00000017 = 00000018 = 00000020	
= 00000010 = 0000008	RENAME	= 0000002p = 00000027	
= 0000001C	RMSSCONNECT RMSSCREATE	****** X 02	
= 00000014 = 0000010	RMS\$DELETE RMS\$DISCONNECT RMS\$DISPATCH	00000000 R 02	
= 00000007 = 00000008	RMS\$DISPLAY RMS\$ENTER	****** X 02	
= 00000000 = 00000014 = 00000018 = 00000004	RMSSEXTEND	***** X 02	
	= 00000008 = 00000008 = 00000008 = 00000010 = 00000010 = 00000010 = 00000010 = 00000010 = 00000010 = 00000020 = 00000020 = 00000020 = 00000020 = 000000000 = 0000000000	= 00000008	S-SEP-1984

RSE

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Page

PSECT name

ABS

\$\$\$RMSVEC

SABS\$

Psect synopsis!

Allocation PSECT No. Attributes

000000000 (0.) 00 (0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE 00000000 (0.) 01 (1.) NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE 0000004F (79.) 02 (2.) NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

16-SEP-1984 01:04:43 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.08	00:00:00.94
Command processing	112	00:00:00.65	00:00:06.08
Pass 1	721	00:00:22.46	00:01:07.98
Symbol table sort	100	00:00:01.88	00:00:03.70
Symbol table output	192 21	00:00:06.49	00:00:20.99
Psect synopsis output	- 1	00:00:00.17	00:00:00.01
Cross-reference output	Ó	00:00:00.00	00:00:00.00
Assembler run totals	1079	00:00:31.76	00:01:40.35

The working set limit was 2100 pages.
252496 bytes (494 pages) of virtual memory were used to buffer the intermediate code.
There were 70 pages of symbol table space allocated to hold 1232 non-local and 0 local symbols.
2346 source lines were read in Pass 1, producing 15 object records in Pass 2.
44 pages of virtual memory were used to define 40 macros.

! Macro Library statistics !

Macro Library name

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all Libraries)

Macros defined
6
19
25

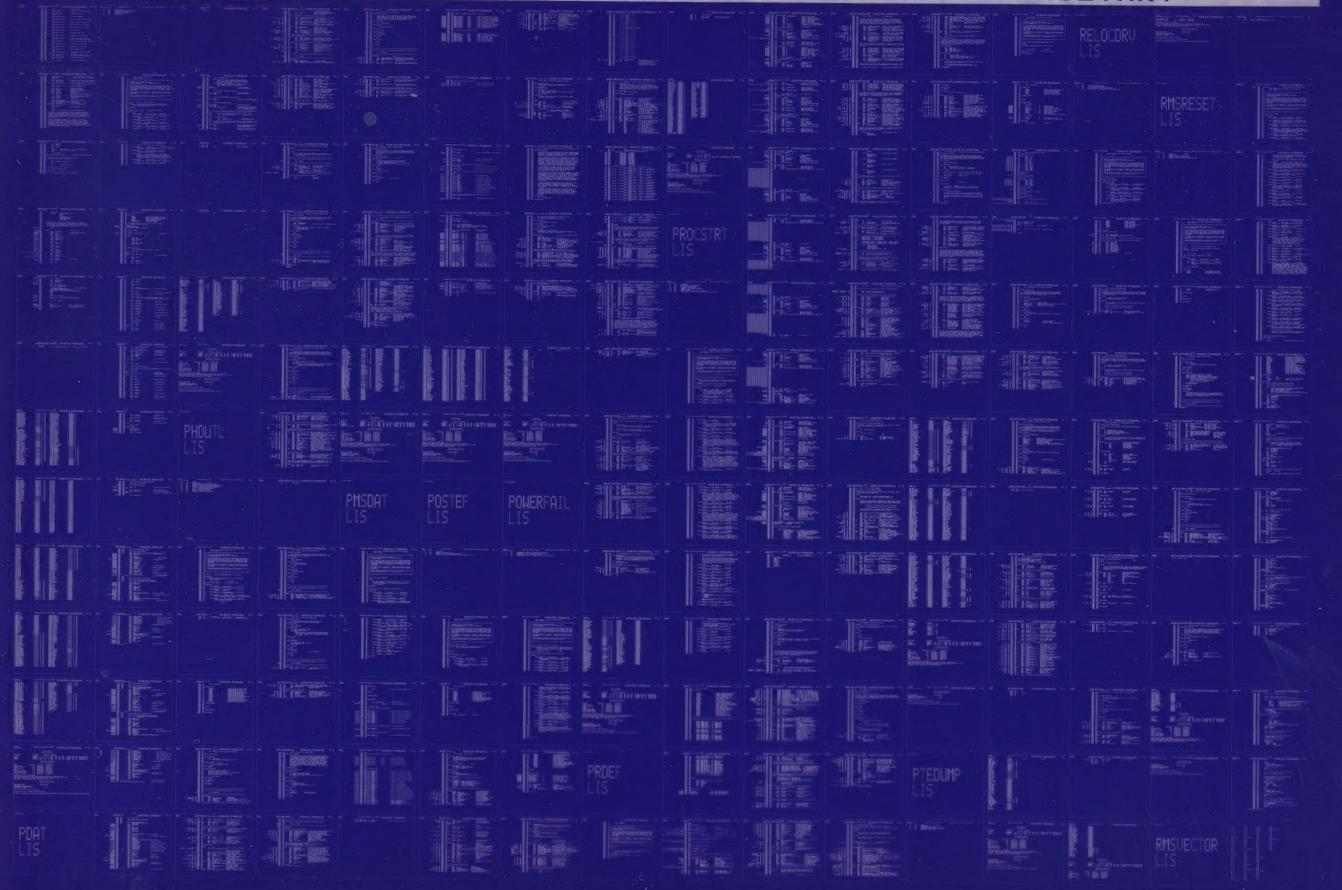
1210 GETS were required to define 25 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSVECTOR/OBJ=OBJ\$:RMSVECTOR MSRC\$:RMSW/UPDATE=(ENH\$:RMSW)+MSRC\$:CMCDSSDSP/UPDATE=(ENH\$:CMODSSDSP)+EXECML\$/LIB

0379 AH-BT13A-SE

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DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

